

INFORMATION REPORT

25X1A

COUNTRY : Germany (Sev Zone)

DATE DISTR. 4 JUN 52

SUBJECT : "Stalin's Organ"-- An Experimental
Installation for the Production of
Heavy Water

NO. OF PAGES 2

PLACE ACQUIRED: [REDACTED] 25X1C

NO. OF ENCLS. 1
(LISTED BELOW)

25X1A

DATE

SUPPLEMENT TO
REPORT NO.

ACQUIRED BY SOURCE : [REDACTED]

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DATE OF INFORMATION: [REDACTED]

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Explanation of Enclosure (A)

2. Heavy water of low concentration passes from catalyst cell one to cells 2, 3, etc, and flows from the last cell as about 95% heavy water. It then goes to an electrolytic cell in the center of the ring of catalyst cells where it is partially decomposed with an electric current. The

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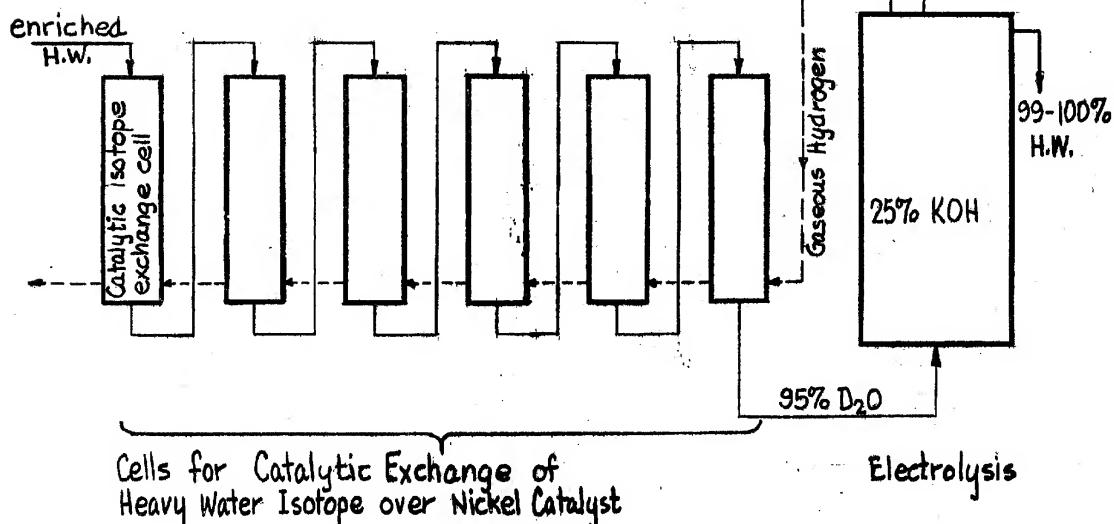
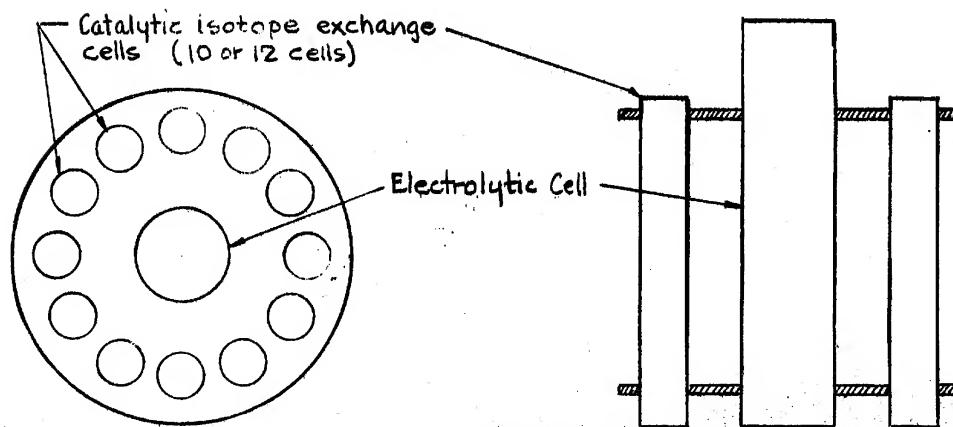
-2-

oxygen passes off as waste, while the hydrogen, with a high percentage of deuterium content, is circulated back through the catalyst cells from the last cell to the first in the direction counter to the flow of the water. About 25% of KOH is added to the electrolytic cell as an electrolyte. The water obtained from the electrolytic cell, after being partly electrolyzed, is 99-100% heavy water.

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Enclosure (A) - Stalin's Organ (Experimental Installation for the Production of Heavy Water)

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ENCL. ADIAGRAMATIC SKETCH OF HEAVY WATER PRODUCTIONPLAN VIEW of InstallationVERTICAL SECTION of INSTALLATION"STALIN'S ORGAN"

(EXPERIMENTAL INSTALLATION FOR THE PRODUCTION OF HEAVY WATER)

ENCLOSURE (4)

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